

**Abstract of the Disclosure**

A wireless communication system includes a mobile terminal, a base station apparatus, a data relay apparatus and a server apparatus. One of the 5 mobile terminal, the base station apparatus, the data relay apparatus and the server apparatus includes a transmitting unit, a monitoring unit and a determining unit. The transmitting unit transmits a transmission data and receives an 10 acknowledgement data corresponding to the transmission data through a communication line. The monitoring unit monitors the transmission data and the acknowledgement data. The determining unit determines a retransmission timeout period based on 15 a monitored result by the monitoring unit in a certain period. The transmitting unit retransmits the transmission data when the acknowledgement data is not received in the retransmission timeout period.

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